

## **AWEX-G Forecast for Tuesday night, October 28 (October 29 UT)**

**Forecast: Scattered clouds at 12000 feet with scattered cirrus. Severe clear conditions not likely, although possible.** Downslope northwest flow aloft will advect cirrus over CART site tonight as high pressure migrates southeast. Subsiding air coupled with low midlevel moisture should lower clouds similar to last night, although not as much, while inhibiting lift and cloud-formation. Middle tropospheric clouds should be quite broken up. I would give launches a yellow light given possibility of scattered mixed-phase clouds and little confidence that 5m/s surface wind criterion won't be exceeded.

Synopsis: 2300Z surface analysis showed high pressure centered over western Kansas ahead of stationary front in lee of the Rockies, with light winds over the CART site.

Grant County forecast: Partly cloudy. Lows in the upper 40s. West winds around 10 mph shifting to the south after midnight.

RUC cloud forecast shows possibility of cirrus development in the vicinity of operations area with no lower cloud development. RUC analysis has cloud coverage a little too far west over eastern Colorado and midlevel clouds overdeveloped.

ETA 700mb RH forecasts little midlevel moisture.

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WX forecast for possible development of thin cirrus over site by 0600 UT and west winds of 10 mph shifting to southerly during the evening. Clouds at 12000' also possible.

AIRS turned off due to impending electromagnetic disturbance. Decision for two launches with NOAA FP going on first launch.

First launch of 4 sensor sonde occurred successfully in 5 m/s winds out of the south at ~0540.

Second launch of NOAA FP with dual package (old and new sensors being intercompared).

SRL operational from 0500. Intermittent mixed phase clouds observed in the lidar data at ~4.5 km. NOAA FP package lost but because of GPS failure.